

Title (en)
DATA PROCESSING DEVICE AND DATA PROCESSING METHOD FOR X-RAY INSPECTION, AND X-RAY INSPECTING DEVICE WITH SAID
DEVICE MOUNTED THEREIN

Title (de)
DATENVERARBEITUNGSVORRICHTUNG UND DATENVERARBEITUNGSVERFAHREN FÜR RÖNTGENINSPEKTIONEN UND
RÖNTGENINSPEKTIONSVORRICHTUNG MIT BESAGTER, DARIN MONTIERTER VORRICHTUNG

Title (fr)
DISPOSITIF DE TRAITEMENT DE DONNÉES ET PROCÉDÉ DE TRAITEMENT DE DONNÉES POUR EXAMEN RADIOLOGIQUE ET
DISPOSITIF D'EXAMEN RADIOLOGIQUE COMPORTANT LEDIT DISPOSITIF MONTÉ EN SON SEIN

Publication
EP 3627145 C0 20240110 (EN)

Application
EP 18801771 A 20180516

Priority
• JP 2017097603 A 20170516
• JP 2018018867 W 20180516

Abstract (en)
[origin: US2019162679A1] In a data processing apparatus, image data are calculated based on photon counts of an X-ray beam transmitted through an object. Based on the image data, X-ray attenuation information is calculated. The attenuation information includes i) inherent information inherently depending on a type or a property of the object, the inherent information being indicated by a quantity of a vector in an n-dimensional coordinate whose dimension is equal in number to the n-piece energy ranges; and ii) associated information being associated with the inherent information and depending on a length of a path along which the X-ray beam passes through the object. From the attenuation information, only the inherent information is produced which is independent of the associated information. Scattering points corresponding to the inherent information are calculated to be mapped in the n-dimensional coordinate or in a coordinate whose dimension is less than the n-dimensional coordinate.

IPC 8 full level
G01N 23/087 (2018.01); **A61B 6/00** (2024.01); **A61B 6/12** (2006.01); **G01N 23/044** (2018.01); **G01N 23/18** (2018.01); **G01V 5/00** (2024.01); **G16H 50/30** (2018.01); **A61B 90/00** (2016.01)

CPC (source: EP US)
A61B 6/12 (2013.01 - EP US); **A61B 6/4241** (2013.01 - EP US); **A61B 6/463** (2013.01 - EP US); **A61B 6/466** (2013.01 - EP US); **A61B 6/469** (2013.01 - EP US); **A61B 6/482** (2013.01 - EP US); **A61B 6/483** (2013.01 - EP US); **A61B 6/502** (2013.01 - EP US); **A61B 6/5217** (2013.01 - EP US); **A61B 6/5282** (2013.01 - US); **G01N 23/044** (2018.02 - EP US); **G01N 23/083** (2013.01 - US); **G01N 23/087** (2013.01 - EP US); **G01N 23/18** (2013.01 - EP US); **G01V 5/22** (2024.01 - EP); **G16H 50/30** (2018.01 - EP); **G01N 33/02** (2013.01 - EP); **G01N 2223/402** (2013.01 - EP US); **G01N 2223/423** (2013.01 - EP US); **G01N 2223/652** (2013.01 - EP US)

Designated contracting state (EPC)
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Participating member state (EPC – UP)
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DOCDB simple family (publication)
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